THE AUSTRALIAN JOURNAL OF EXPERIMENTAL BIOLOGY AND MEDICAL SCIENCE

VOLUME XLVIII

AUTHOR INDEX

Agar, N. S., *see* Evans, J. V.

Aladjem, R., *see* Thonard, J. C.

Allen, S. H., *see* Ibbotson, R. N.

Atkinson, N. Colicin-like antibiotics and bacteriophages of Salmonellas, 199.

Baldo, B. A., and Boettcher, B. ABO(H) erythrocyte specific agglutinins in the serum of the Australian freshwater catfish *Tandanus tandanus* (Mitchell), 241.

Blair-West, J. R., Coghlan, J. P., Denton, D. A., Scoggins, B. A., Wintour, E. M., and Wright, R. D. Effect of change of sodium balance on the corticosteroid response to angiotensin II, 253.

Boettcher, B., *see* Baldo, B. A.

Braden, A. W. H., *see* Holst, P. J.

Braude, N. I., *see* Levenson, V. I.

Budtz-Olsen, O. E., *see* Yesberg, N. E.

Chandler, H. M., and Gulasekharam, J. An evaluation of characteristics of *Clostridium chauvoei* which possibly indicate a highly protective strain, 187.

Chernokhvostova, E. V., *see* Levenson, V. I.

Coghlan, J. P., *see* Blair-West, J. R.

Connon, A. F. Immunoglobulin levels for maternal and foetal serum, amniotic fluid and foetal gastric juice in normal pregnancy, 691.

Conza, J. J. Di, *see* Di Conza, J. J.

Cousins, F. B., *see* Smillie, A. C.

Cox, R. I., *see* Holst, P. J.

Cunningham, A. J., *see* Smith, J. B.

Denton, D. A., *see* Blair-West, J. R.

Despas, P. J., and Leigh, J. The *in vivo* carbon dioxide titration curve in man during rebreathing, 657.

Di Conza, J. J. Some characteristics of natural haemagglutinins found in serum and mucus of the catfish, *Tachysurus australis*, 515.

Dunckley, G. G., *see* Percival, L. H.

Evans, J. V., Roberts, J., and Agar, N. S. Delta type Merino sheep: a rare blood type with some erythrocyte characteristics approaching those found in the camel, 25.

Evans, J. V., *see also* Little, A.

Fantl, P. Thiol distribution and mercaptalbumin reactivity in the blood plasma of different vertebrates, 631.

Fewings, J. D., Hyman, C., Walsh, J. A., and Whelan, R. F. The role of forearm skin and muscle vessels in reactive hyperaemia, 179.

Field, C. D. An investigation of the reversal of the hepatic venous circulation in the isolated perfused dog liver, 343.

Finnegan, D. J., and Hope, R. M. The role of sialic acid in the serum amylase isoenzyme pattern of the marsupial mouse *Sminthopsis crassicaudata*, 237.

Forbes, I. J., *see* Smith, J. L.

Frank, S., Zelcher, J., and Walters, W. A. W. The influence of synthetic oestrogen and progestogen on the rat myocardium, 381.

Frost, A. J. The assessment of a selected set of bacteriophages in the typing of *Staphylococcus aureus* of bovine origin in Australia, 651.

Furneaux, R. W., and Tracy, G. D. Anomalous behaviour of blood volume following acute severe haemorrhage, 645.

Furneaux, R. W., and Tracy, G. D. The validity of the isotope dilution method of measuring extracellular fluid volume after acute haemorrhage, 407.

Gawthorne, J. M. The effect of cobalt intake on the cobamide and cobinamide composition of the rumen contents and blood plasma of sheep, 285.

Gawthorne, J. M. *In vitro* studies of the factors affecting the metabolism of cobamides and cobinamides by sheep rumen microorganisms, 293.

Gill, P. G. The mechanism of action of heterologous antilymphocytic serum: the biological activity of rabbit macrophage-cytophilic antilymphocytic antibody in mice, 583.

Gill, P. G., *see also* Gotjamanos, T.

Gooden, B. A., Lehman, R. G., and Pym, J. Role of the face in the cardiovascular responses to total immersion, 687.

Gotjamanos, T., and Gill, P. G. Changes in phagocytic activity and morphology of reticuloendothelial organs in mice induced by antilymphocyte serum, 461.

Gotjamanos, T. A comparison of the changes produced in reticuloendothelial organs of mice during host-versus-graft and graft-versus-host reactions, 567.

Gotjamanos, T. The effect of skin allograft size on survival time following transplantation between mice differing at the H-2 locus, 1.

Goulding, A., and Malthus, R. S. Effects of the protein content of the diet on the development of nephrocalcinosis in rats, 313.

Goulding, A., and Malthus, R. S. Effects of urinary acidity on the development of nephrocalcinosis in rats, 301.

Gulasekharam, J., *see* Chandler, H. M.

Gurney, C. W., *see* Ibbotson, R. N.

Halliday, W. J., *see* Kearney, R.

Harrison, M. J, Enhancing effect of DEAE-Dextran on inclusion counts of an ovine *Chlamydia* (*Bedsonia*) in cell culture, 207.

Hay, J. B., *see* Yamashita, A.

Henderson, M., *see* Yesberg, N. E.

Holst, P. J., Cox, R. I., and Braden, A. W. H. The distribution of noradrenaline in the sheep oviduct, 563.

Hope, R. M., *see* Finnegan, D. J.

Horn, D. H. S., *see* Thomson, J. A.

Huxtable, C. R. Ultrastructural changes caused by *Swainsona galegifolia* poisoning in the guinea-pig, 71.

Hyman, C., *see* Fewings, J. D.

Ibbotson, R. N., Allen, S. H., and Gurney, C. W. An abnormality of the bone-marrow of sheep fed cobalt-deficient hay-chaff, 161.

Imray, F. P., *see* Thomson, J. A.

Jago, M. V. A. A method for the assessment of the chronic hepatoxicity by pyrrolizidine alkaloids, 93.

Jenkin, C. R., and Rowley, D. Immunity in invertebrates. The purification of a haemagglutinin to rat and rabbit erythrocytes from the haemolymph of the Murray Mussel (*Velesunio ambiguus*), 129.

Jenkin, C. R., *see also* McKay, D.

Kearney, R., and Halliday, W. J. Humoral and cellular responses of mice to a pneumococcal polysaccharide antigen. Circulating antibodies, 215.

Kearney, R., and Halliday, W. J. Humoral and cellular responses of mice to a pneumococcal polysaccharide antigen. Plaques and paralysis, *in vivo* and *in vitro*, 227.

Korner, P. I., and Uther, J. B. Stimulus-cardiorespiratory effector response profile during arterial hypoxia in the unanaesthetized rabbit, 663.

Lafferty, K. J., *see* Smith, J. B., and Yamashita, A.

Lascelles, A. K., *see* Lee, C. S.

Lee, C. S., and Lascelles, A. K. Antibody-producing cells in antigenically stimulated mammary glands and in the gastro-intestinal tract of sheep, 525.

Lehman, R. G., *see* Gooden, B. A.

Leigh, J., *see* Despas, P. J.

Levenson, V. I., Braude, N. I., and Chernokhvostova, V. Adherence-promoting antibodies. The investigation of physicochemical properties of mouse anti-Vi antibodies providing immune fixation of antigen to macrophage surface, 417.

Little, A., McKenzie, A. J., Morris, R. J. H., Roberts, J., and Evans, J. V. Blood electrolytes in the Australian camel, 17.

Lumbers, E. R. Peripheral vascular reactivity to angiotensin and noradrenaline in pregnant and non-pregnant women, 493.

McCullagh, P. J. The immunological capacity of lymphocytes from normal donors after their transfer to rats tolerant of sheep erythrocytes, 369.

McCullagh, P. J. The immunological status of the bone marrow cells of sheep erythrocyte-tolerant rats, 537.

McCullagh, P. J. Interaction *in vitro* between rat macrophages and thoracic duct lymphocytes during initiation of antibody responses to sheep erythrocytes, 551.

McCullagh, P. J. The transfer of immunological competence to rats tolerant of sheep erythrocytes with lymphocytes from normal rats, 351.

McIntyre, K. H., and Williams, V. J. The role of the kidney in nitrogen conservation in sheep, 81.

McKay, D., and Jenkin, C. R. Immunity in the invertebrates. Correlation of the phagocytic activity of haemocytes with resistance to infection in the crayfish (*Parachaeraps bicarinatus*), 609.

McKay, D., and Jenkin, C. R. Immunity in the invertebrates. The fate and distribution of bacteria in normal and immunised crayfish (*Parachaeraps bicarinatus*), 599.

McKay, D., and Jenkin, C. R. Immunity in invertebrates. The role of serum factors in phagocytosis of erythrocytes by haemocytes of the freshwater crayfish (*Parachaeraps bicarinatus*), 139.

McKenzie, A. J., *see* Little, A.

Malthus, R. S., *see* Goulding, A.

Morgan, E. H., *see* Seward, J.-M.

Morris, B., *see* Smith, J. B.

Morris, P. J., *see* Taylor, H. R., and Ting, A.

Morris, R. J. H., *see* Little, A.

Nelson, D. S. Studies on cytophilic antibodies. A mouse serum "antibody" having an affinity for macrophages and fast α-globulin mobility, 329.

Olsen, O. E. Budtz, *see* Budtz-Olsen, O. E.

Oo, K. C. The absorption of iodovancomycin by *Micrococcus lysodeikticus* cells, 397.

Percival, L. H., Dunckley, G. G., and Purves, H. D. Isoelectric focusing in polyacrylamide gels, 171.

Phillips, P. A., Stanley, N. F., and Walters, M. N-I. Murine disease induced by avian reovirus, 277.

Potter, J. M., Sparrow, M. P., and Simmonds, W. J. Increased uptake and efflux of calcium with acetylcholine stimulation in smooth muscle of toad stomach, 429.

Purves, H. D., *see* Percival, L. H.

Pym, J., *see* Gooden, B. A.

Roberts, J., *see* Evans, J. V., and Little, A.

Rowley, D., *see* Jenkin, C. R.

Rowley, M. J. "Natural" antibody in man to flagellar antigens of *Salmonella adelaide*, 249.

Scoggins, B. A., *see* Blair-West, J. R.

Seward, J.-M., and Morgan, E. H. The role of the kidney in albumin, transferrin and IgG catabolism in the rat, 389.

Simmonds, W. J., *see* Potter, J. M.

Simons, P. J. The behaviour of two strains of murine sarcoma virus *in vitro*, 105.

Smillie, A. C., and Cousins, F. B. Further studies on a skin calcifying system, 151.

Smith, J. B., and Morris, B. The response of the popliteal lymph node of the sheep to swine influenza virus, 33.

Smith, J. B., and Morris, B. The response of the sheep to swine influenza virus, 47.

Smith, J. B., Cunningham, A. J., Lafferty, K. J., and Morris, B. The role of the lymphatic system and lymphoid cells in the establishment of immunological memory, 57.

Smith, J. L., and Forbes, I. J. Inhibition of protein synthesis in human lymphocytes by thiopurines, 267.

Sparrow, M. P., *see* Potter, J. M.

Stanley, N. F., *see* Phillips, P. A.

Taylor, H. R., and Morris, P. J. A simple micro method for detecting isohaemagglutinins in rats using papainized red blood cells, 245.

Thomson, J. A., Imray, F. P., and Horn, D. H. S. An improved *Calliphora* bioassay for insect moulting hormones, 321.

Thonard, J. C., and Aladjem, R. Local cellular antibodies. Response in splenectomized rats following oral mucosa immunization with sheep erythrocytes, 501.

Ting, A., and Morris, P. J. The genetics of the HL-A system in a Caucasian Australian population and its relationship to renal transplantation, 481.

Tosolini, F. A. The response of mice to the intravenous injection of lymphocytic choriomeningitis virus, 445.

Tracy, C. D., *see* Furneaux, R. W.

Uther, J. B., *see* Korner, P. I.

Walsh, J. A., *see* Fewings, J. D.

Walters, M. N-I., *see* Phillips, P. A.

Walters, W. A. W., *see* Frank, S.

West, J. R. Blair-, *see* Blair-West, J. R.

Whelan, R. F., *see* Fewings, J. D.

Williams, V. J., *see* McIntyre, K. H.

Wintour, E. M., *see* Blair-West, J. R.

Wright, R. D., *see* Blair-West, J. R.

Yamashita, P., Hay, J. B., and Lafferty, K. J. Separation and characterization of cells produced by the antigenically stimulated lymph node, 619.

Yesberg, N. E., Henderson, M., and Budtz-Olsen, O. E. The excretion of vasopressin by normal and dehydrated sheep, 115.

Zelcher, J., *see* Frank, S.

THE AUSTRALIAN JOURNAL OF EXPERIMENTAL BIOLOGY AND MEDICAL SCIENCE

VOLUME XLVIII

SUBJECT INDEX

Acetylcholine stimulation in smooth muscle of toad stomach, increased uptake and efflux of calcium with (Potter, Sparrow and Simmonds), 429.

Adherence-promoting antibodies, *see* Antibodies, adherence-promoting.

Agglutinins, ABO(H) erythrocyte specific, in the serum of the Australian freshwater catfish *Tandanus tandanus* (Mitchell) (Baldo and Boettcher), 241.

Albumin, transferrin and IgG catabolism in the rat, the role of the kidney in (Seward and Morgan), 389.

Allograft, skin, size, the effect of, on survival time following transplantation between mice differing at the H-2 locus (Gotjamanos), 1.

Angiotensin and noradrenaline, peripheral vascular reactivity to, in pregnant and non-pregnant women (Lumbers), 493.

Angiotensin II, effect of change of sodium balance on the corticosteroid response to (Blair-West, Coghlan, Denton, Scoggins, Wintour and Wright), 253.

Antibodies, adherence-promoting. The investigation of physicochemical properties of mouse anti-Vi antibodies providing immune fixation to macrophage surface (Levenson, Braude and Chernokhvostova), 417.

Antibodies, cytophilic, studies on. A mouse serum "antibody" having an affinity for macrophages and fast α-globulin mobility (Nelson), 329.

Antibodies, local cellular. Response in splenectomized rats following oral mucosa immunization with sheep erythrocytes (Thonard and Aladjem), 501.

Antibody, "natural" in man to flagellar antigens of *Salmonella adelaide* (Rowley), 249.

Antibody-producing cells in antigenically stimulated mammary glands and in the gastro-intestinal tract of sheep (Lee and Lascelles), 525.

Antibody responses to sheep erythrocytes, interaction *in vitro* between rat macrophages and thoracic duct lymphocytes during initiation of (McCullagh), 551.

Antigenically stimulated lymph node, separation and characterization of cells produced by the (Yamashita, Hay and Lafferty), 619.

Antilymphocyte serum, changes in phagocytic activity and morphology of reticuloendothelial organs in mice induced by (Gotjamanos and Gill), 461.

Antilymphocytic serum, heterologous, the mechanism of action of: the biological activity of rabbit macrophage-cytophilic antilymphocytic antibody in mice (Gill), 583.

Arterial hypoxia in the unanaesthetized rabbit, stimulus-cardiorespiratory effector response profile during (Korner and Uther), 663.

Avian reovirus, murine disease induced by (Phillips, Stanley and Walters), 277.

Bacteriophages, the assessment of a selected set of, in the typing of *Staphylococcus aureus* of bovine origin in Australia (Frost), 651.

Blood electrolytes in the Australian camel (Little, McKenzie, Morris, Roberts and Evans), 17.

Blood volume, anomalous behaviour of, following acute severe haemorrhage (Furneaux and Tracy), 645.

Bone-marrow, an abnormality of the, of sheep fed cobalt-deficient hay-chaff (Ibbotson, Allen and Gurney), 161.

Bone marrow cells of sheep erythrocyte-tolerant rats, the immunological status of the (McCullagh), 537.

Calcium, increased uptake and efflux of, with acetylcholine stimulation in smooth muscle of toad stomach (Potter, Sparrow and Simmonds), 429.

Calliphora bioassay, an improved, for insect moulting hormones (Thomson, Imray and Horn), 321.

Camel, Australian, blood electrolytes in the (Little, McKenzie, Morris, Roberts and Evans), 17.

Carbon dioxide titration curve, *in vivo*, in man during rebreathing (Despas and Leigh), 657.

Cardiovascular responses to total immersion, role of the face in the (Gooden, Lehman and Pym), 687.

Catfish, *Tachysurus australis*, some characteristics of natural haemagglutinins found in serum and mucus of the (Di Conza), 515.

Catfish, Australian freshwater, *Tandanus tandanus* (Mitchell), ABO(H) erythrocyte specific agglutinins in the serum of the (Baldo and Boettcher), 241.

Chlamydia (*Bedsonia*), ovine, in cell culture, enhancing effect of DEAE-Dextran on inclusion counts of an (Harrison), 207.

Clostridium chauvoei, an evaluation of characteristics of, which possibly indicate a highly protective strain (Chandler and Gulasekharam), 187.

Cobalt-deficient hay-chaff, an abnormality of the bone-marrow of sheep fed (Ibbotson, Allen and Gurney), 161.

Cobalt intake, the effect of, on the cobamide and cobinamide composition of the rumen contents and blood plasma of sheep (Gawthorne), 285.

Cobamides and cobinamides, *in vitro* studies of the factors affecting the metabolism of, by sheep rumen micro-organisms (Gawthorne), 293.

Colicin-like antibiotics and bacteriophages of Salmonellas (Atkinson), 199.

Corticosteriod response to angiotensin II, effect of change of sodium balance on the (Blair-West, Coghlan, Denton, Scoggins, Wintour and Wright), 253.

Crayfish (*Parachaeraps bicarinatus*), correlation of the phagocytic activity of haemocytes with resistance to infection in. Immunity in the invertebrates (McKay and Jenkin), 609.

Crayfish (*Parachaeraps bicarinatus*), normal and immunised, the fate and distribution of bacteria in. Immunity in the invertebrates (McKay and Jenkin), 599.

Crayfish, freshwater, (*Parachaeraps bicarinatus*), the role of serum factors in phagocytosis of erythrocytes by haemocytes of the. Immunity in invertebrates (McKay and Jenkin), 139.

Cytophilic antibodies, *see* Antibodies, cytophilic.

DEAE-Dextran, enhancing effect of, on inclusion counts of an ovine *Chlamydia* (*Bedsonia*) in cell culture (Harrison), 207.

Extracellular fluid volume after acute haemorrhage, the validity of the isotope dilution method of measuring (Furneaux and Tracy), 407.

Face, the role of, in the cardiovascular responses to total immersion (Gooden, Lehman and Pym), 687.

Forearm skin and muscle vessels in reactive hyperaemia, the role of (Fewings, Hyman, Walsh and Whelan), 179.

Genetics of the HL-A system in a Caucasian Australian population and its relationship to renal transplantation (Ting and Morris), 481.

Graft-versus-host and host-versus-graft reactions, a comparison of the change produced in reticuloendothelial organs of mice during (Gotjamanos), 567.

HL-A system, the genetics of the, in a Caucasian Australian population and its relationship to renal transplantation (Ting and Morris), 481.

Haemagglutinin to rat and rabbit erythrocytes, the purification of a, from the haemolymph of the Murray Mussel (*Velesunio ambiguus*). Immunity in invertebrates (Jenkin and Rowley), 129.

Haemagglutinins, natural, some characteristics of, found in serum and mucus of the catfish, *Tachysurus australis* (Di Conza), 515.

Haemorrhage, acute severe, anomalous behaviour of blood volume following (Furneaux and Tracy), 645.

Haemorrhage, acute, the validity of the isotope dilution method of measuring extracellular fluid volume after (Furneaux and Tracy), 407.

Hepatic venous circulation, an investigation of the reversal of the, in the isolated perfused dog liver (Field), 343.

Hepatoxicity, chronic, by pyrrolizidine alkaloids, a method for the assessment of the (Jago), 93.

Host-versus-graft and graft-versus-host reactions, a comparison of the changes produced in reticuloendothelial organs of mice during (Gotjamanos), 567.

Humoral and cellular responses of mice to a pneumococcal polysaccharide antigen. Circulating antibodies (Kearney and Halliday), 215.

Humoral and cellular responses of mice to a pneumococcal polysaccharide antigen. Plaques and paralysis, *in vivo* and *in vitro* (Kearney and Halliday), 227.

Hyperaemia, reactive, the role of forearm skin and muscle vessels in (Fewings, Hyman, Walsh and Whelan), 179.

IgG, albumin and transferrin catabolism in the rat, the role of the kidney in (Seward and Morgan), 389.

Immersion, total, role of the face in the cardiovascular responses to (Gooden, Lehman and Pym), 687.

Immunity in the invertebrates. Correlation of the phagocytic activity of haemocytes with resistance to infection in the crayfish (*Parachaeraps bicarinatus*) (McKay and Jenkin), 609.

Immunity in the invertebrates. The fate and distribution of bacteria in normal and immunised crayfish (*Parachaeraps bicarinatus*) (McKay and Jenkin), 599.

Immunity in invertebrates. The purification of a haemagglutinin to rat and rabbit erythrocytes from the haemolymph of the Murray Mussel (*Velesunio ambiguus*) (Jenkin and Rowley), 129.

Immunity in invertebrates. The role of serum factors in phagocytosis of erythrocytes by haemocytes of the freshwater crayfish (*Parachaeraps bicarinatus*) (McKay and Jenkin), 139.

Immunoglobulin levels for maternal and foetal serum, amniotic fluid and foetal gastric juice in normal pregnancy (Connon), 691.

Immunological capacity of lymphocytes from normal donors after their transfer to rats tolerant of sheep erythrocytes (McCullagh), 369.

Immunological competence, the transfer of, to rats tolerant of sheep erythrocytes with lymphocytes from normal rats (McCullagh), 351.

Immunological memory, the role of the lymphatic system and lymphoid cells in the establishment of (Smith, Cunningham, Lafferty and Morris), 57.

Immunological status of the bone marrow cells of sheep erythrocyte-tolerant rats (McCullagh), 537.

Influenza virus, swine, the response of the hepatic lymph node of the sheep to (Smith and Morris), 47.

Influenza virus, swine, the response of the popliteal lymph node of the sheep to (Smith and Morris), 33.

Insect moulting hormones, an improved *Calliphora* bioassay for (Thomson, Imray and Horn), 321.

Invertebrates, immunity in the. Correlation of the phagocytic activity of haemocytes with resistance to infection in the crayfish (*Parachaeraps bicarinatus*), (McKay and Jenkin) 609.

Invertebrates, immunity in the. The fate and distribution of bacteria in normal and immunised crayfish (*Parachaeraps bicarinatus*) (McKay and Jenkin), 599.

Invertebrates, immunity in. The purification of a haemagglutinin to rat and rabbit erythrocytes from the haemolymphs of the Murray Mussel (*Velesunio ambiguus*) (Jenkin and Rowley), 129.

Inveterbrates, immunity in. The role of serum factors in phagocytosis of erythrocytes by haemocytes of the freshwater crayfish (*Parachaeraps bicarinatus*) (McKay and Jenkin), 139.

Iodovancomycin, the absorption of, by *Micrococcus lysodeikticus* cells (Oo), 397.

Isoelectric focusing in polyacrylamide gels (Percival, Dunckley and Purves), 171.

Isohaemagglutinins, a simple micro method for detecting, in rats using papainized red blood cells (Taylor and Morris), 245.

Isotope dilution method, the validity of the, of measuring extracellular fluid volume after acute haemorrhage (Furneaux and Tracy), 407.

Kidney, the role of the, in albumin, transferrin and IgG catabolism in the rat (Seward and Morgan), 389.

Kidney, the role of the, in nitrogen conservation in sheep (McIntyre and Williams), 81.

Lymph node, antigenically stimulated, separation and characterization of cells produced by the (Yamashita, Hay and Lafferty), 619.

Lymph node, hepatic, of the sheep, the response of the, to swine influenza virus (Smith and Morris), 47.

Lymph node, popliteal, of the sheep, the response of the, to swine influenza virus (Smith and Morris), 33.

Lymphatic system and lymphoid cells, the role of the, in the establishment of immunological memory (Smith, Cunningham, Lafferty and Morris), 57.

Lymphocytes, human, inhibition of protein synthesis in, by thiopurines (Smith and Forbes), 267.

Lymphocytes, the immunological capacity of, from normal donors after their transfer to rats tolerant of sheep erythrocytes (McCullagh), 369.

Lymphocytic choriomeningitis virus, the response of mice to the intravenous injection of (Tosolini), 445.

Macrophages, rat, and thoracic duct lymphocytes, interaction *in vitro* between, during initiation of antibody responses to sheep erythrocytes (McCullagh), 551.

Mammary glands, antigenically stimulated, antibody-producing cells in, and in the gastrointestinal tract of sheep (Lee and Lascelles), 525.

Marsupial mouse *Sminthopsis crassicaudata*, the role of sialic acid in the serum amylase isoenzyme pattern of the (Finnegan and Hope), 237.

Mercaptalbumin reactivity and thiol distribution in the blood plasma of different vertebrates (Fantl), 631.

Merino sheep, delta type: a rare blood type with some erythrocyte characteristics approaching those found in the camel (Evans, Roberts and Agar), 25.

Mice, the response of, to the intravenous injection of lymphocytic choriomeningitis virus (Tosolini), 445.

Micrococcus lysodeikticus cells, the absorption of iodovancomycin by (Oo), 397.

Murine disease induced by avian reovirus (Phillips, Stanley and Walters), 277.

Murine sarcoma virus, the behaviour of two strains of, *in vitro* (Simons), 105.

Murray Mussel (*Velesunio ambiguus*), the purification of a haemagglutinin to rat and rabbit erythrocytes from the haemolymph of the. Immunity in invertebrates (Jenkin and Rowley), 129.

Muscle, smooth, of toad stomach, increased uptake and efflux of calcium with acetylcholine stimulation in (Potter, Sparrow and Simmonds), 429.

Myocardium, rat, the influence of synthetic oestrogen and progestogen on the (Frank, Zelcer and Walters), 381.

Nephrocalcinosis in rats, effects of the protein content of the diet on the development of (Goulding and Malthus), 313.

Nephrocalcinosis in rats, effects of urinary acidity on the development of (Goulding and Malthus), 301.

Nitrogen conservation in sheep, the role of the kidney in (McIntyre and Williams), 81.

Noradrenaline, the distribution of, in the sheep oviduct (Holst, Cox and Braden), 563.

Oestrogen and progestogen, synthetic, the influence of, on the rat myocardium (Frank, Zelcer and Walters), 381.

Oviduct, sheep, the distribution of noradrenaline in the (Holst, Cox and Braden), 563.

Parachaeraps bicarinatus, see Crayfish.

Phagocytic activity and morphology of reticuloendothelial organs in mice, changes in, induced by antilymphocyte serum (Gotjamanos and Gill), 461.

Phagocytosis of erythrocytes by haemocytes of the freshwater crayfish (*Parachaeraps bicarinatus*), the role of serum factors in. Immunity in invertebrates (McKay and Jenkin), 139.

Pneumococcal polysaccharide antigen, humoral and cellular responses of mice to a. Circulating antibodies (Kearney and Halliday), 215.

Pneumococcal polysaccharide antigen, humoral and cellular responses of mice to a. Plaques and paralysis, *in vivo* and *in vitro* (Kearney and Halliday), 227.

Polyacrylamide gels, isoelectric focusing in (Percival, Dunckley and Purves), 171.

Pregnancy, normal, immunoglobulin levels for maternal and foetal serum, amniotic fluid and foetal gastric juice in (Connon), 691.

Pregnant and non-pregnant women, peripheral vascular reactivity to angiotensin and noradrenaline in (Lumbers), 493.

Progestogen and oestrogen, synthetic, the influence of, on the rat myocardium (Frank, Zelcer and Walters), 381.

Protein content of the diet, effects of the, on the development of nephrocalcinosis in rats (Goulding and Malthus), 313.

Protein synthesis, inhibition of, in human lymphocytes by thiopurines (Smith and Forbes), 267.

Pyrrolizidine alkaloids, chronic hepatoxicity by, a method for the assessment of the (Jago), 93.

Rats, sheep erythrocyte tolerant, the immunological status of the bone marrow cells of (McCullagh), 537.

Renal transplantation, the genetics of the HL-A system in a Caucasian Australian population and its relationship to (Ting and Morris), 481.

Reticuloendothelial organs in mice, morphology of, and phagocytic activity, changes in, induced by antilymphocyte serum (Gotjamanos and Gill), 461.

Reticuloendothelial organs of mice, a comparison of the changes produced in, during host-versus-graft and graft-versus-host reactions (Gotjamanos), 567.

Rumen contents and blood plasma of sheep, the effect of cobalt intake on the cobamide and cobinamide composition of the (Gawthorne), 285.

Salmonella adelaide, "natural" antibody in man to flagellar antigens of (Rowley), 249.

Salmonellas, colicin-like antibiotics and bacteriophages of (Atkinson), 199.

Separation and characterization of cells produced by the antigenically stimulated lymph node (Yamashita, Hay and Lafferty), 619.

Serum amylase isoenzyme pattern of the marsupial mouse *Sminthopsis crassicaudata*, the role of sialic acid in (Finnegan and Hope), 237.

Sheep, antibody-producing cells in antigenically stimulated mammary glands and in the gastrointestinal tract of (Lee and Lascelles), 525.

Sheep fed cobalt-deficient hay-chaff, an abnormality of the bone-marrow of (Ibbotson, Allen and Gurney), 161.

Sheep, Merino, *see* Merino sheep.

Sheep, normal and dehydrated, the excretion of vasopressin by (Yesberg, Henderson and Budtz-Olsen), 115.

Sheep, rumen contents and blood plasma of, the effect of cobalt intake on the cobamide and cobinamide composition of the (Gawthorne), 285.

Sheep rumen micro-organisms, *in vitro* studies of the factors affecting the metabolism of cobamides and cobinamides by (Gawthorne), 293.

Sheep, the response of the popliteal lymph node of the, to swine influenza virus (Smith and Morris), 33.

Sheep, the role of the kidney in nitrogen conservation in (McIntyre and Williams), 81.

Sialic acid, the role of, in the serum amylase isoenzyme pattern of the marsupial mouse *Sminthopsis crassicaudata*, (Finnegan and Hope), 237.

Skin calcifying system, further studies on a (Smillie and Cousins), 151.

Sminthopsis crassicaudata, see Marsupial mouse.

Sodium balance, effect of change of, on the corticosteroid response to angiotensin II (Blair-West, Coghlan, Denton, Scoggins, Wintour and Wright), 253.

Splenectomized rats, response in, following oral mucosa immunization with sheep erythrocytes. Local cellular antibodies (Thonard and Aladjem), 501.

Staphylococcus aureus of bovine origin in Australia, the assessment of a selected set of bacteriophages in the typing of (Frost), 651.

Stimulus-cardiorespiratory effector response profile during arterial hypoxia in the unanaesthetized rabbit (Korner and Uther), 663.

Swainsona galegifolia poisoning in the guinea-pig, ultrastructural changes caused by (Huxtable), 71.

Tachysurus australis, see Catfish.

Tandanus tandanus (Mitchell), *see* Catfish, Australian freshwater.

Thiol distribution and mercaptalbumin reactivity in the blood plasma of different vertebrates (Fantl), 631.

Thiopurines, inhibition of protein synthesis in human lymphocytes by (Smith and Forbes), 267.

Ultrastructural changes caused by *Swainsona galegifolia* poinsoning in the guinea-pig (Huxtable), 71.

Urinary acidity, effects of, on the development of nephrocalcinosis in rats (Goulding and Malthus), 301.

Vascular reactivity, peripheral, to angiotensin and noradrenaline in pregnant and non-pregnant women (Lumbers), 493.

Vasopressin, the excretion of, by normal and dehydrated sheep (Yesberg, Henderson and Budtz-Olsen), 115.

Velesunio ambiguus, see Murray Mussel.